

# TEM, Incorporated

NIST-NVLAP TEM Air Samples 101130  
NIOSH-PAT PCM Fiber Count 010238  
AIHA-AAR PCM Analyst 010238

137951

443 Duane Street, Glen Ellyn, Illinois 60137 Phone (630) 790-0880 Fax (630) 790-0882

March 29, 2000

Mr. Mike Henry  
Illinois Dept. of Natural Resources  
Waste Management and Research Center  
928 South Spring St.  
Springfield, Illinois 62704

RE: TEM Project 35979

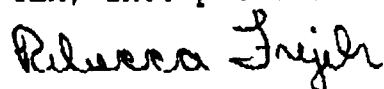
Dear Mr. Henry:

On March 16, 2000, TEM, Incorporated received samples identified as IDNR-001 and IDNR-002 from the Illinois Department of Natural Resources which were logged in as TEM sample numbers 136569 and 136570.

The samples were analyzed according to the EPA/600/R-93/116 Test Method for the Determination of Asbestos in Bulk Building Material. Samples 136569 and 136570 were found to be fibrous and friable asbestos containing material.

We are returning samples IDNR-001 and IDNR-002 as requested. If you should have any questions or comments please feel free to contact us.

Sincerely,  
TEM, Incorporated



Rebecca Frejek  
Senior Analyst

enclosures

# **BULK ASBESTOS SAMPLE EVALUATION** **POLARIZED LIGHT MICROSCOPY (PLM) TECHNIQUE**

NVLAP LAB ID 101130-0

<b>Company Name:</b> Illinois Dept. of Natural Resources				<b>Client Project Ref:</b> IL Beach State Park			
<b>Contact:</b> Mike Henry				<b>Project Location:</b>			
<b>Address:</b> 928 S. Spring Street				<b>TEM Project:</b> 35979			
Springfield, IL 62704-				<b>Analyzed by:</b> Rebecca Frejek			
				<b>Date Analyzed:</b> 3/16/00			

Sample Information				Fibrous Materials		Non-Fibrous Materials		Comments
Client Sample ID	TEM ID	COLOR	ACM	Asbestos Fibers Type	Percent	Non-Asbestos Fibers Type	Percent	
IDNR-001	136369	Grey	Yes	Chrysotile	40-45	Cellulose	3-5	50-57
Fibrous & Friable Material				Amosite	N/D	Glass	-	
IDNR-002	136570	Grey	Yes	Chrysotile	45-50	Cellulose	3-5	45-52
Fibrous & Friable Material				Amosite	N/D	Glass	-	

Samples were analyzed following the procedures contained in the EPA Method 600/R-93/116, July 1993. This report applies only to samples tested.

SLM: The optical resolution of polarized light microscopy limits the size of fibers that are visible. In samples where very small fibers may be present, the asbestos fibers may be smaller than the resolution limit of a polarized light microscope. In these cases, the result of the PLM analysis is not conclusive where the sample is reported as non-asbestos. Samples that are expected to contain small fibers (such as floor tile samples) and that are reported as non-asbestos by PLM should be further analyzed by transmission electron microscopy.

Key: ACM = Asbestos Containing Material as defined in USEPA NESHAP Regulation; TR = Trace; N/D = None Detected

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*Rebecca Frejek*  
 Signature of Analyst

00-27-00

aw

### BULK SAMPLES by PLM ANALYSIS

RELINQUISHED (SIGNATURE) <i>Mr. De Michael</i>	DATE / TIME <i>3/31/00</i>	RECEIVED BY (SIGNATURE) <i>Mr. De Michael</i>	DATE / TIME <i>3/16/00 9:00am</i>
RELAQUISHED (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
LOGGED IN BY (SIGNATURE)	DATE / TIME	ANALIZED BY (SIGNATURE)	DATE / TIME